TEST RESULTS OF STEEL

Lab ID	:	**CP-2017-05-22-01** **Date: 24-05-17**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads and Drains at Muneshwara road, Puttajinappa Layout in Ward No.09 (Vidyaranyapura) Vidyaranyapura Sub Division.
Agency	:	Bharath Kumar V, #530, Kaliyamma temple road, Kuvempunagar 2nd Stage, Bangalore-560 014.
Customer's Reference	:	BBMP/EE/BTP/WO/179/2016-17
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	22-05-17
Sample ID No	:	2017-05-22-01/01
Sample Type	:	JSW
Reference to BIS codes	:	IS 1786-2008
Date of test:	:	22-05-17

Sl.No	Identification of sample	Grade of the sample	Diameter of the steel bar	Weight of the sample (kg/m)	Yield stress (N/mm^2)	Tensile strength (N/mm^2)	Elongation (%)
1	JSW	Fe500	10mm	0.612	532	652	20.0%

Sl.No	Identification of sample	Grade of the sample	Diameter of the steel bar	Bend test	Rebend test
1	JSW	Fe500	10mm	Satisfactory	Satisfactory

Note:
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Prepared By:
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Quality Manager

End of Report

TEST RESULTS OF STEEL

Lab ID	:	**CP-2017-05-22-01**	**Date: 24-05-17**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.	
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.	
Project Name	:	Improvements to Roads and Drains at Muneshwara road, Puttajinappa Layout in Ward No.09 (Vidyaranyapura) Vidyaranyapura Sub Division.	
Agency	:	Bharath Kumar V, #530, Kaliyamma temple road, Kuvempunagar 2nd Stage, Bangalore-560 014.	
Customer's Reference	:	BBMP/EE/BTP/WO/179/2016-17	
Source of Sample	:	Sample supplied by Agency	
Sample Condition	:	Satisfactory	
Date of Receipt	:	22-05-17	
Sample ID No	:	2017-05-22-01/02	
Sample Type	:	JSW	
Reference to BIS codes	:	IS 1786-2008	
Date of test:	:	22-05-17	

Sl.No	Identification of sample	Grade of the sample	Diameter of the steel bar	Weight of the sample (kg/m)	Yield stress (N/mm^2)	Tensile strength (N/mm^2)	Elongation (%)
1	JSW	Fe500	12mm	0.883	546	673	20.0%

Sl.No	Identification of sample	Grade of the sample	Diameter of the steel bar	Bend test	Rebend test
1	JSW	Fe500	12mm	Satisfactory	Satisfactory

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TEST REPORT OF PRECAST COVER SLAB

Lab ID : **CP-2017-05-22-01** **Date: 25-05-17**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Improvements to Roads and Drains at Muneshwara road, Puttajinappa Layout in Ward No.09 (Vidyaranyapura) Vidyaranyapura Sub Division.

Agency : Bharath Kumar V, #530, Kaliyamma temple road, Kuvempunagar 2nd Stage, Bangalore-560 014.

Customer's Reference : BBMP/EE/BTP/WO/179/2016-17

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 22-05-17

Sample ID No : 2017-05-22-01/03

Sample Type /Size : Precast Cover Slab

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete

Date of test : 22/05/2017

Sl. No.	Identification Mark	Diameter of the core	Height of the core	Weight of the core	Area	Failure Load	Core Compressive strength	Corrected Cylinder Compressive strength	Equivalent Cube Compressive strength
		(mm)	(mm)	(mm)	(Sq.mm)	(KN)	(N/mm^2)	(N/mm^2)	(N/mm^2)
1	Cover Slab-1	75.21	100.49	1.276	4442	82.8	18.6	17.3	21.7
2	Cover Slab-2	75.18	100.51	1.266	4438	88.8	20.0	18.6	23.3
3	Cover Slab-3	75.15	100.52	1.252	4435	85.5	19.3	17.9	22.4

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Certificate No.: T- 4358

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2017-05-26-05** **Date: 30-05-17**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Improvements to Roads and Drains at Muneshwara road, Puttajinappa Layout in Ward No.09 (Vidyaranyapura) Vidyaranyapura Sub Division.

Agency : Bharath Kumar V, #530, Kaliyamma temple road, Kuvempunagar 2nd Stage, Bangalore-560 014.

Customer's Reference : BBMP/EE/BTP/WO/179/2016-17

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 26-05-17

Sample ID No : 2017-05-26-05/01

Customer ID : Drain Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 30/05/2017

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Concrete	M20	23/05/2017	30/05/2017	151.29 X 150.73 X 150.23	22804	8.154	399.1	17.5	17.7
2	Drain Concrete	M20	23/05/2017	30/05/2017	150.76 X 151.29 X 150.28	22808	8.185	392.3	17.2	
3	Drain Concrete	M20	23/05/2017	30/05/2017	150.87 X 150.38 X 150.76	22688	8.173	415.2	18.3	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2017-05-26-05** **Date: 20-06-17**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Improvements to Roads and Drains at Muneshwara road, Puttajinappa Layout in Ward No.09 (Vidyaranyapura) Vidyaranyapura Sub Division.

Agency : Bharath Kumar V, #530, Kaliyamma temple road, Kuvempunagar 2nd Stage, Bangalore-560 014.

Customer's Reference : BBMP/EE/BTP/WO/179/2016-17

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 26-05-17

Sample ID No : 2017-05-26-05/02

Customer ID : Drain Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 20/06/2017

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Concrete	M20	23/05/2017	20/06/2017	150.76 X 150.35 X 150.38	22667	8.137	534.9	23.6	23.7
2	Drain Concrete	M20	23/05/2017	20/06/2017	150.89 X 150.75 X 151.82	22747	8.182	552.7	24.3	
3	Drain Concrete	M20	23/05/2017	20/06/2017	150.74 X 150.28 X 150.37	22653	8.177	527.8	23.3	

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TEST REPORT OF FINE AGGREGATE

Lab ID	:	**CP-2017-05-18-08** **Date: 20-05-17**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads and Drains at Muneshwara road, Puttajinappa Layout in Ward No.09 (Vidyaranyapura) Vidyaranyapura Sub Division.
Agency	:	Bharath Kumar V, #530, Kaliyamma temple road, Kuvempunagar 2nd Stage, Bangalore-560 014.
Customer's Reference	:	BBMP/EE/BTP/WO/179/2016-17
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	18-05-17
Sample ID No	:	2017-05-18-08/03
Sample Type	:	Fine Aggregate
Reference to BIS codes	:	IS 383 : 2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1, 3) RA2012 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption
Date of test	:	18-05-2017 to 20-05-2017
Total weight taken	:	1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:2016			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0	100	100	100	100	100
2	4.75 mm	42	42	4.2	95.8	90-100	90-100	90-100	95-100
3	2.36 mm	181	223	22.3	77.7	60-95	75-100	85-100	95-100
4	1.18 mm	144	367	36.7	63.3	30-70	55-90	75-100	90-100
5	600 micron	198	565	56.5	43.5	15-34	35-59	60-79	80-100
6	300 micron	211	776	77.6	22.4	5-20	8-30	12-40	15-50
7	150 micron	192	968	96.8	3.2	0-10	0-10	0-10	0-15
8	Pan	32	1000	100	0	---	---	---	---
Result :The tested Sample Conforms to Grading Zone II									

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TEST REPORT OF FINE AGGREGATE

Lab ID : **CP-2017-05-18-08** **Date: 20-05-17**

Sample ID No : 2017-05-18-08/03

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS 383:2016
1	Water Absorption(%)	2.16	_
2	Specific Gravity	2.58	_
3	Material finer than 75 micron(%)	3.10	Uncrushed fine Aggregate Max 3%, Crushed Fine aggregate Max 15%, Mixed Fine aggregate Max 12%, Manufactured Fine aggregate Max 10%

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2017-05-18-08** **Date: 20-05-2017**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads and Drains at Muneshwara road, Puttajinappa Layout in Ward No.09 (Vidyaranyapura) Vidyaranyapura Sub Division.
Agency	:	Bharath Kumar V, #530, Kaliyamma temple road, Kuvempunagar 2nd Stage, Bangalore-560 014.
Customer's Reference	:	BBMP/EE/BTP/WO/179/2016-17
Source of Sample	:	Sample supplied by Agency
Sample condition	:	Satisfactory
Date of Receipt	:	18-05-17
Sample ID No	:	2017-05-18-08/01
Sample Type	:	40mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	18-05-2017 to 20-05-2017

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken : 15000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	80 mm	0	0	0.0	100	100
2	40 mm	287	287	1.9	98.1	90-100
3	20 mm	6546	6833	45.6	54.4	30-70
4	10 mm	5656	12489	83.3	16.7	10-35
5	4.75 mm	2302	14791	98.6	1.4	0-5
6	Pan	209	15000	100	0	---

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2017-05-18-08** **Date: 20-05-2017**

Sample ID No : 2017-05-18-08/01

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	10.6	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	10.2	
3	Specific Gravity	2.61	–
4	Bulk Density(Loose) (Kg/l)	1.52	–
5	Bulk Density(Compacted) (Kg/l)	1.56	–
6	Water Absorption(%)	0.19	–

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****End of Report****

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BBMP, Bangalore-97

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2017-05-18-08** **Date: 20-05-2017**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads and Drains at Muneshwara road, Puttajinappa Layout in Ward No.09 (Vidyaranyapura) Vidyaranyapura Sub Division.
Agency	:	Bharath Kumar V, #530, Kaliyamma temple road, Kuvempunagar 2nd Stage, Bangalore-560 014.
Customer's Reference	:	BBMP/EE/BTP/WO/179/2016-17
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	18-05-17
Sample ID No	:	2017-05-18-08/01
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 (Part 1,2 3,4,5, 6,11):1988 IS 4031 Part 1 DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4 IS 4031 Part 2, Determination of Fineness by Blaine Air Permeability Method, Clause 5 IS 4031 Part 3, Determination of Soundness, Clause 5,Clause 6 IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 5, Determination of Initial & Final Setting Time, Clause 5 IS 4031 Part 11,DETERMINATION OF DENSITY , Clause 6
Date of test	:	18-05-2017 to 20-05-2017

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	2.76	–
2	Finess by Air permeablity method (m^2/kg, Min)	286.7	225m^2/kg, Min
3	Density (gm/cc)	3.21	–
4	Standard Consistency (%)	28.0%	Not specified
5	Initial Setting time	155 minutes	Not less than 30 minutes
6	Final Setting time	250 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	1.5mm	Not more than 10 mm

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TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2017-05-18-08** **Date: 15-06-2017**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads and Drains at Muneshwara road, Puttajinappa Layout in Ward No.09 (Vidyaranyapura) Vidyaranyapura Sub Division.
Agency	:	Bharath Kumar V, #530, Kaliyamma temple road, Kuvempunagar 2nd Stage, Bangalore-560 014.
Customer's Reference	:	BBMP/EE/BTP/WO/179/2016-17
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	18-05-17
Sample ID No	:	2017-05-18-08/01
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 6, Determination of Compressive Strength, Clause 6
Date of test	:	18-05-2017 to 15-06-2017

Compressive Strength

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	3 Days	28.0N/mm^2	Not less than 27 N/mm^2
2	7 Days	39.0N/mm^2	Not less than 37 N/mm^2
3	28 Days	56.0N/mm^2	Not less than 53 N/mm^2

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